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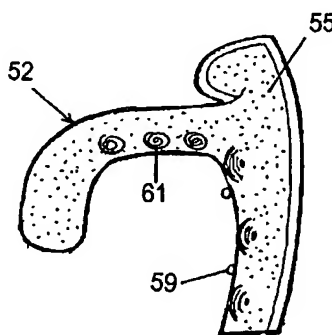
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(54) Title: THERAPEUTIC DECORATIVE OBJECT



(57) Abstract: A therapeutic apparatus (50, 62, 67, 70, 71, 75, 78, 79, 40, 44, 45, 46, 80, 90, 103, 104, 106, 115, 125, 132, 134, 140, 144, 151, 152, 162, 166, 175, 181, 191, 187) includes one or more therapeutic devices (59, 61, 55, 66, 69, 70, 74, Figures 14A-14G, 43, 85, 94, 98, 102, 108, 110, 118, 121, 122, 128, 145, 146, 149, 153, 161, 170, 167, 177, 183, 189, 192, 190), such as a vaporizer, a massage unit, heating or cooling units, which are camouflaged in a decorative object or in a clothing item or in a utilitarian object, such as a piece of furniture, all of which are worn or located adjacent a person who can obtain the therapeutic benefits from the items. A decorative object (50, 67, 40, 80, 90) can be shaped to be worn by a person and have a therapeutic device camouflaged therein so that the therapeutic object acts on the individual while the decorative object is being worn. The same applies to clothing and apparel (44, 45, 46, 104, 106, 115, 132, 134, 144, 152, 151, 150, 140) including a ladies purse (115) which can have a plurality of therapeutic devices therein, such as an electric massager or vaporizer or a heating pack which can be held against a person without drawing attention to the person receiving the therapy. Therapeutic items can also be incorporated into furniture (71, 162, 163, 164, 166, 181, 187), such as tables or beds, to provide therapeutic action through a vaporizer or the like while a person is sitting adjacent the furniture.

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THERAPEUTIC DECORATIVE OBJECT1 BACKGROUND OF THE INVENTION

2

3 The object has an exterior covering with a
4 predetermined appearance, texture and feel that is
5 psychologically attractive and camouflages its
6 purposes. The object encloses multifunctional and
7 multi-use therapeutic devices with interchangeable
8 modules to provide drugless, naturopathic relief of
9 tension, cramps, sleeplessness, musculoskeletal aches,
10 stiffness, strains and sprains, minor burns, bumps and
11 bruises, swelling, headaches, and the like by taking
12 advantage of resources drawn from prior art
13 therapeutic and naturopathic healing systems.

14 The present invention provides commercial
15 articles to its users with therapeutic abilities to
16 promote normal functioning of the body and mind, but
17 does not display the utilitarian nature of the
18 therapeutic devices which might cause embarrassment or
19 be unappealing to a user. The invention provides a
20 useful and pleasant article with multiple uses and
21 functions for personalized use to provide relief for
22 the individual's mind and body and to promote their
23 well being and health.

24 The products include naturopathic toys, clothing,
25 accessories, bedding, furniture, electronics and other
26 decorative articles or combination thereof.

27 All embodiments have a decorative camouflaging
28 cover configured to resemble a predetermined object.
29 They may be shaped to conform to the proper alignment
30 of the body to improve posture or to cover a
31 predetermined area. The devices appear to the public
32 as attractive and normal objects. Interchangeable
33 modules allow therapeutic devices to be customized for

1 an individual person and may include heating and/or
2 cooling elements, an aromatic container, containers
3 containing salts, seeds, herbs, grains, oils minerals
4 etc., a body alignment element and/or magnets,
5 bioelectromagnetic frequency elements (sound, light)
6 ionizers, acupressure, massage, and other holistic
7 elements.

8 The therapeutic elements can be interchangeable
9 interior and exterior pockets or may be part of the
10 object itself made out of appropriate therapeutic
11 material. They may be used singularly or combined
12 with one or more holders using a number of
13 corresponding fastener systems or have it built into
14 an object. In a ladies handbag, for instance, one
15 side may have a removable and closed container filled
16 with solid or liquid material, such as rice, flax
17 seed, sand, healing stones, water magnets or
18 bioelectromagnetic element or cold/hot gel packs, to
19 provide heating or cooling. Dry rice, for instance,
20 when heated, produces moist heat to relieve a number
21 of aches and pains while radioactive volcanic sand can
22 be applied to enhance circulation and relieve
23 arthritic pains. Hot mud, called "fango", such as
24 used in spas, or liquids like mineral spring water
25 combined with bioelectromagnetic energy and herbs
26 using different heating or cooling methods can be
27 applied as compresses or used for inhaling purposes.
28 Moisture, aroma and radiation can be used in any
29 combination to achieve the desired heated effect. The
30 container may be heated or cooled externally to a
31 desired temperature in a microwave or freezer or by
32 chemical reaction or by electrically heating or the
33 like. The invention may additionally utilize a
34 thermostat with or without a dial and/or temperature

1 gauge. The invention may also provide an aromatic
2 essence holder with an insert located in the proximity
3 of the heating element to provide combined effects of
4 the heat with the essence. Containers in the
5 decorative support may also contain magnets, massage,
6 liquid soak naturopathic cloth, or acupressure
7 elements. So, for example, one side of the ladies bag
8 may be warmed or cooled as desired, the aroma holder
9 at the top may be filled with the desired aroma
10 essence, while the other side of the bag may have a
11 container with magnets. The ladies bag can also be
12 used with battery operated massage (vibrator) inserts
13 or acupressure (plastic balls) inserted in
14 a desired location, for example, against the lower
15 back.

16 According to the invention there is provided a
17 universal decorative object containing multi-use,
18 multi-function and multi-purpose modules to enhance
19 the quality of life for the user.

20 For children, therapeutic toys may be used to
21 comfort, heal and to ensure good posture and health.
22 They promote recovery after illnesses, accidents and
23 traumas or even enhance learning abilities and good
24 night sleep. The toys may be anatomically shaped in
25 designs to improve posture combined with pleasing
26 aromas to relieve cold and allergy symptoms and
27 thermal applications to keep children warm while
28 walking to school in winter containing naturopathic
29 ingredients known to prevent and help the body
30 naturally heal itself. Naturopathic toys are used to
31 help balance the mind and systems of the body.

32 A toy may be any size, shape or color and made
33 out of materials that can be heated, cooled or
34 moisturized (directly or indirectly) and combined with

1 natural elements like rice, sand, aromas, herbs, and
2 magnets as already described.

3 A toy Koala bear, for instance, may be placed
4 around the neck with its body anatomically shaped to
5 cover the upper back, shoulders and neck area. It
6 would be of non-flammable material filled with herbs,
7 grains etc. and heated in a microwave for
8 approximately 2 minutes, depending on the size and
9 ingredient. An aromatic essence could also be added
10 to it. Roman chamomile, for example, can be applied
11 directly to the bear covering or placed in a small
12 container with a filter insert.

13 For stomach discomforts or lower back pain, a
14 flat large thermo-toy may be used. In addition,
15 inserts containing magnets and/or battery operated
16 vibrators could be inserted.

17 The present invention is also intended to cover
18 objects used for natural alignment of the body to
19 relax back muscles and relieve pressure points. It
20 may be in a removable, washable, soft plush-like
21 material. An elongated dolphin, for instance, made of
22 anatomically designed or memory foam, would fit every
23 contour of the body to support the head, neck, spine,
24 knees, ankles and joints. It contains a removable
25 filling made of sand, rice or a gel pack heated or
26 cooled internally or externally with an aromatic
27 insert to help promote sleep and relieve tension and
28 stiffness. Pockets can be filled with magnets, herb
29 saturated materials, or massage vibrators to help
30 relieve complaints and to enhance healthy sleeping
31 habits.

32 The present toys are generally filled with
33 healing ingredients in separate inserts but can also
34 be filled directly, depending on their use and

1 application. The combination of different modules and
2 the application of warming or cooling effects together
3 with modules for smelling, touching, seeing, tasting
4 or listening gives the present toy a special ability
5 to comfort and help relieve aches and pain. It also
6 promote healing, relaxation, and sleeping, while
7 concealing the healing substances necessary to help
8 its users. A therapeutic toy also gives a child
9 something to hug, cuddle and squeeze with enjoyment.

10 Examples of therapeutic accessories include all
11 kind of bags, pocketbooks, folders, briefcases, head
12 coverings, hand and footwear (such as gloves, shoes,
13 insoles), bands, belts and jewelry. Each resembles
14 the actual intended use of a product with an
15 additional benefit of some naturopathic abilities to
16 comfort its users. All the embodiments comprise the
17 same universal inserts and are adapted to its
18 embodiment and the needs of the individual user. A
19 ladies handbag is described as well as a head
20 covering, insoles and shoes, bands and the like.
21 Gloves filled with heated or cooled herbed essences
22 and/or magnets and acupressure balls or bands may be
23 applied to different parts of the body.

24 Another embodiment includes naturopathic bedding
25 and applies the same principles. This includes
26 naturopathic mattresses combining a pillow within the
27 mattress body with heating and cooling elements.
28 Integrating a warming blanket, and/or essence
29 cartridge, and using orthopedic foam which may
30 incorporate magnets and vibrators and/or herbal
31 compresses at acupressure points may be attached with
32 a screw-on/snap-on mechanism onto a blanket. Covers,
33 chair inserts and anatomically shaped devices may be
34

1 used as partial or whole body supports and provide
2 needed relief for aches or tension after an injury.

3 Fashionable naturopathic clothing incorporating
4 magnets, bioelectromagnetic elements (sound, light,
5 ionizers) acupressure devices, herbal inserts, aroma,
6 essence and hot/cold gel packs or tubes filled with
7 special liquid that can be heated or cooled or the
8 like also anticipated as being within the spirit and
9 scope of the invention.

10

11 SUMMARY OF THE INVENTION

12

13 A therapeutic apparatus includes one or more
14 therapeutic devices, such as a vaporizer, a massage
15 unit, heating or cooling packs, which are camouflaged
16 in a decorative object or in a clothing item or in a
17 utilitarian object, such as a piece of furniture, all
18 of which are worn or located adjacent a person who can
19 obtain the therapeutic benefits from the items. A
20 decorative object can be shaped to be worn by a person
21 and have a therapeutic device camouflaged therein so
22 that the therapeutic object acts on the individual
23 while the decorative object is being worn. The same
24 applies to clothing including a ladies purse which can
25 have a plurality of therapeutic devices therein, such
26 as an electric massager or vaporizer or a heating
27 elements which can be held against a person without
28 drawing attention to the person receiving the therapy.
29 Therapeutic items can also be incorporated into
30 furniture, such as tables or beds, to provide
31 therapeutic action through a vaporizer or the like
32 while a person is sitting adjacent the furniture.

33

34

1 BRIEF DESCRIPTION OF THE DRAWINGS

2

3 Other objects, features, and advantages of the
4 present invention will be apparent from the written
5 description and the drawings in which:

6 Figure 1 is a sectional view of a portion of a
7 decorative toy animal camouflaging a plurality of
8 therapeutic devices;

9 Figure 2 is a sectional view of the decorative
10 plush toy of Figure 1 mounted on an individual's back;

11 Figure 3 is a perspective view of the decorative
12 plush toy of Figures 1 and 2 on a person's back;

13 Figure 4 is a perspective view of a therapeutic
14 seating attachment for placing in a seat;

15 Figure 5A is a perspective view of the
16 therapeutic seat attachment of Figure 4 being folded
17 for portability;

18 Figure 5B is a perspective view of the folded
19 seat attachment of Figures 4 and 5A;

20 Figure 6 is a perspective view of a person
21 sitting in a plane seat with a therapeutic toy animal;

22 Figure 7 is a perspective view of a decorative
23 item incorporating a vaporizer, magnets, hot/cold
24 elements and/or the like.

25 Figure 8 is a perspective view of an individual
26 having a therapeutic vest while sitting on the
27 therapeutic seat attachment and having a therapeutic
28 vest and neck wrap;

29 Figure 9 is a perspective view of a therapeutic
30 folded blanket;

31 Figure 10 is a sectional view of a supporting
32 therapeutic mattress with a plurality of therapeutic
33 devices having an individual thereon;

34

1 Figure 11 is a sectional view of another
2 supporting therapeutic mattress having an individual
3 thereon;

4 Figure 12A is a perspective view of a therapeutic
5 pillow for placing between the legs of the individual
6 on the mattress of Figures 10 and 11;

7 Figure 12B is a perspective view of a spine
8 support;

9 Figure 13A is a front perspective view of a plush
10 toy animal having a zippered opening;

11 Figure 13B is a side elevation of the plush toy
12 of Figure 13A;

13 Figures 14A-14F illustrate different therapeutic
14 additions for the cavity of the plush animal of
15 Figures 13A and 13B or any other therapeutic object;

16 Figure 15 is a perspective view of a flexible
17 polymer type tube;

18 Figure 15B is a sectional view of the flexible
19 polymer type tube of Figure 15A filled with a gel;

20 Figure 16A is a vest having the filled tubes of
21 15A and 15B incorporated therein;

22 Figure 16B is a perspective view of a glove
23 having the tubes of Figures 15A and 15B therein;

24 Figure 16C is a perspective view of a scarf
25 having the tubes of 15A and 15B incorporated therein;

26 Figure 17 is an elevation of a baby on a blanket
27 holding a therapeutic porpoise between it's legs and
28 arms;

29 Figure 18 is a sectional view of the porpoise of
30 Figure 17;

31 Figure 19 is a sectional view taken through the
32 closed container filled with liquid salt, gel or flax
33 seed of Figure 18;

34

1 Figure 20 is an elevation of an individual on a
2 mattress holding the therapeutic toy of Figures 17-19;

3 Figure 21 is a front elevation of an individual
4 holding the therapeutic toy of Figure 17;

5 Figure 22 is a diagrammatic view of a plurality
6 of therapeutic devices camouflaged in a decorative
7 wrap;

8 Figure 23 is a sectional view of the therapeutic
9 devices of 22;

10 Figure 23A is a perspective view of the support
11 for an essence for a vaporizer having a vaporizing
12 liquid added thereto;

13 Figure 24 is an elevation of a person's foot;

14 Figure 25 is an elevation of the bottom of a
15 person's foot;

16 Figure 26 is a side elevation of a person's foot
17 being positioned on an inner sole of a shoe having
18 acupressure points thereon;

19 Figure 27 is a top elevation of the inner sole
20 with magnets and pressure nodules of Figure 26;

21 Figure 28 is an exploded perspective of the shoe
22 with the inner sole and aromatic essence being added
23 thereto;

24 Figure 29 is an exploded perspective view of a
25 sandal having pressure nodules positioned thereon;

26 Figure 30 is an ankle band having magnets,
27 pressure points, and massage apparatus and heat or
28 cold added thereto;

29 Figure 30A is a sectional view of the ankle band
30 of Figure 30;

31 Figure 31 is a perspective view of a therapeutic
32 hat;

33 Figure 32 is a perspective view of the hat of
34 Figure 31 having a vaporizing liquid added thereto;

1 Figure 33 is an exploded view of a hat of Figures
2 31 and 32;

3 Figure 34 is a sectional view of different
4 therapeutic layering for a band for use in the hat of
5 Figures 31-33;

6 Figure 35 is an exploded perspective view of a
7 hat having a therapeutic band therein;

8 Figure 36 is a side elevation of a person wearing
9 a therapeutic hat of Figures 31-35;

10 Figure 37 is a front elevation of a person
11 sitting in a chair holding a therapeutic purse;

12 Figure 38 is a sectional view of the therapeutic
13 purse of Figure 37;

14 Figure 39 is a perspective view of the purse of
15 Figures 37 and 38;

16 Figure 40 is a perspective view of a therapeutic
17 animal bed having an animal therein;

18 Figure 41 is a perspective view of another animal
19 bed having therapeutic devices therein;

20 Figure 42 is a perspective view of a microwave
21 having a microwavable dog vest being placed therein;

22 Figure 43 is a perspective view of a dog having
23 therapeutic clothing;

24 Figure 44 is a perspective view of another dog
25 having therapeutic clothing;

26 Figure 45 is a side elevation of a horse having
27 a therapeutic ankle wrap and cover;

28 Figure 46 is a rear elevation of a person
29 illustrating some of the acupressure points;

30 Figure 47 is a front elevation of a person
31 wearing athletic clothing having a plurality of
32 therapeutic devices thereto;

33 Figures 47A and 47B illustrate the therapeutic
34 clothing of Figure 47;

1 Figure 48 is a perspective view of a jacket
2 having therapeutic devices therein and having an
3 aromatic essence liquid added thereto;

4 Figure 48A is a perspective view of a women's top
5 having therapeutic devices therein;

6 Figure 49 is a perspective view of a pair of
7 pants having therapeutic devices therein;

8 Figure 50 is a perspective view of a corner of a
9 room having camouflaged therapeutic devices therein;

10 Figure 51 is a perspective view of a wall unit
11 having therapeutic devices formed therein;

12 Figure 52 is a perspective view of a bolt of
13 cloth having therapeutic devices formed therein;

14 Figure 53 is a perspective view of a coffee table
15 having therapeutic devices therein;

16 Figure 54 is a perspective view of playing cards
17 made out of therapeutic material having devices
18 camouflaged therein; and

19 Figure 54A is a perspective view of a chest board
20 having chest pieces with therapeutic devices therein.

21

22 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

23

24 The invention is a decorative object (such as a
25 toy, a game, picture, chair, a pullover, a hat, a
26 wall, carpet, CD player, computer or music keyboard,
27 with incorporated therapeutic devices for treating
28 individuals without it appearing to others that they
29 are obtaining treatment. As seen in Figures 1-54 and
30 especially in Figures 1-3, a decorative toy animal 50
31 is shown on the back of a person 51 and is shown in
32 the nature of a plush toy cat having upper arms 52 and
33 lower arms 53 which allow the plush toy's therapeutic
34 device 50 to fit onto a person's back similar to a

1 backpack with the arms 52 and 53 wrapping around the
2 shoulder and arms of the individual 51. The
3 therapeutic toy 50 has fasteners 54 for holding the
4 toy on the person's 51 back and includes an inner
5 module 55 which can be a loose granular material or
6 other material which will form fit to the individual's
7 back and which, advantageously, allows heating or
8 cooling of the material for radiating heat for a
9 period after the material has been heated. Granular
10 solids can include grains, beans, seeds, grasses,
11 barks, or ordinary rice as well as sand, stone, salts
12 and minerals and can also include water or oil mixes
13 or gels for retaining the heat or the lack of heat for
14 treating the individual. A foamed polymer material 56
15 can be form fitted around the module 55 and may be a
16 foam having a memory to align with the body as well as
17 to form an insulation layer over the module 55. The
18 therapeutic toy 50 may have a storage pocket 57 as
19 well as a reflective material cover 58 and might also
20 include a holder 60 in which an aromatic essence
21 and/or ions, sound etc. can be released into the air
22 adjacent to the person's face. Additional treatment
23 can be obtained with a plurality of magnets 61, as
24 shown in Figure 1, the area can also contain massage
25 vibrators or ball-shaped devices or nodules 59 for
26 applying pressure to the person's body while the
27 person is walking, sitting and/or leaning against it.
28 Advantageously, the therapeutic decorative object 50
29 can appear to be a toy while camouflaging its
30 therapeutic values and a back pack for adults or vest
31 for pets.

32 Turning to Figures 4-8, another embodiment of the
33 therapeutic attachment is illustrated in the form of
34 a seating attachment 62 which has a seat portion 63

1 and a back portion 64 as well as a neck wrap portion
2 65. The seating portion 63 and back portion 64 are
3 spaced with a large groove 66. This allows a person
4 sitting on the seat portion and leaning against the
5 back portion, as seen in Figure 6, to have their spine
6 fit into the groove 66 to relieve pressure on the
7 spine. The neck portion 65 can then wrap around a
8 person's neck, as seen in Figure 6, and may be a
9 decorative toy animal 67 or the like. Advantageously,
10 the seat object 62 can be folded, as seen in Figures
11 5A and 5B, for portability. The seat portion 63, the
12 back portion 64, and the neck portion 65 can be
13 enhanced with other modules, such as shown in Figure
14 7, where the neck portion has a material 70 specially
15 designed for receiving an aromatic or other chemical
16 68 which is dispensed and provides an aromatic essence
17 around the person's head. In addition, as seen in
18 Figure 8, heating or cooling materials can be placed
19 in the seat 63 and the back 64 and the neck 65 or 67
20 and permanent magnets placed therein and positioned,
21 as desired, and acupressure ball-shaped nodules 69 can
22 be positioned for pressing against pressure points of
23 the individual. Massage vibrators can also be
24 incorporated into the back or seat portion that can be
25 activated through the pressure of the body or a
26 switch. An individual in Figure 8 is wearing a
27 therapeutic vest 44.

28 Turning to Figures 9-12, a therapeutic blanket
29 75 is illustrated and can be heated or cooled, as well
30 as have magnets 78 and can have an essence added
31 thereto in a supporting material or directly on the
32 blanket. A mattress 71 has the shape of a person's
33 body, as illustrated in Figures 10 and 11. The
34 mattress may be of one continuous piece, as shown in

1 Figure 11, or in therapeutic modular portions, as
2 shown in Figure 10. Each piece may be filled with
3 different therapeutic ingredients. In addition, a
4 special essence holding slot 73 is incorporated for
5 receiving the aromatic essence 74 for the person 72 to
6 breathe while he is resting or sleeping. Also, an
7 absorbent material 74A, can have the essence applied
8 thereto, as seen in Figure 11, which can then be
9 inserted into a slot 73 just beneath the individual's
10 72 head. Figures 14A-G has different therapeutic
11 materials that can be used in the mattress 71.

12 As seen in Figure 11, the form fitting mattress
13 allows the spine of the individual 72 to maintain a
14 straight line. Figure 12A is a therapeutic pillow 78
15 having heated inserts 55 with massage vibrators 59 for
16 placing between the legs of a person resting on the
17 mattress. As shown in Figure 12B, the back pillow 79
18 incorporates therapeutic devices that support the
19 spine when a person is laying on their side. Also as
20 shown in Figure 11, the heated material 76, such as
21 flax seed, rice, or grains, can provide a heat therapy
22 to the person 72 and be heated by an electric blanket
23 77 that can be incorporated into the mattress surface
24 as desired.

25 Figures 13A and 13B show a toy 40 shown as a
26 turtle made of a plush, flexible material which is
27 heat resistant. The toy 40 has a zipper 41 to allow
28 entrance to the cavity 42. The cavity can have any of
29 the inserts of Figures 14A-14G placed therein.

30 Figure 14A shows loose granular material, such as
31 grains, including flax seed and the like, which can be
32 heated to retain heat in the toy of Figures 13A and
33 13B. Figure 14B illustrate the use of ice in a
34 waterproof container while Figure 14C illustrates the

1 use of liquid oils, gels and the like. Figures 14D is
2 a massage or vibrator while Figures 14E shows a
3 plurality of magnets. Figure 14F is an ionizer,
4 essence dispenser while Figure 14G uses natural
5 materials, such as onions or lemons. Any combination
6 of Figures 14A-14G can be used in any one device.

7 Turning to Figures 15A and 15B, a polymer type
8 tube 43 is illustrated which will be used to hold the
9 liquids, gels, grains and the like within the clothing
10 of Figures 16A, 16B and 16C.

11 Figure 16A shows a vest 44 having a plurality of
12 the filled tubes 43 therein such that the whole vest
13 can be heated in a microwave to heat or activate the
14 ingredients in tubes 43 attached in the vest.
15 Similarly, Figures 16B is for a glove 45 having the
16 filled tubes 43 mounted therein and Figure 16C shows
17 a scarf 46 having the flexible filled tube 43 therein.
18 The fabric out of which the clothing is made can also
19 have a loose granular heat holding material therein.

20 Turning to Figures 17, 18, 19, 20 and 21, another
21 embodiment of a toy 80 is illustrated in the nature of
22 a toy porpoise for a child 81 in Figure 17 and
23 supporting an adult 82 in Figure 21. The porpoise is
24 shaped with a head portion 83 for cuddling and support
25 of the neck while a tail portion 84 is specifically
26 shaped to provide support between the legs. In
27 addition, an aromatic essence supporting material 85
28 is located in the toy's head for the individual 81 and
29 82 to breathe. A special heating material 87 can be
30 placed within the middle of the therapeutic animal 80
31 and may be surrounded in a form fitting foam 88 or
32 polyester fiber. Figure 19 shows a heating liquid 46
33 in a sealed polymer material which can be activated by
34 a trigger 47 placed therein. As seen in Figure 20,

1 the shape of the porpoise, when being held and
2 supported, helps keep the spine aligned while
3 providing the aromatic essence and heat to the
4 individual 82 relieving tension, aches and e.g. cold
5 symptoms.

6 Turning now to Figures 22, 23 and 23A, a
7 decorative teddy bear 90 of a flexible fabric body 93
8 has a decorative head 91 and arms 92, which can be
9 wrapped around an individual or carried over their
10 shoulder as desired. It may include massaging
11 vibrators 94, as shown in Figure 23, activated with a
12 cord 99 and also may have an essence holder 96 for
13 receiving an essence 97 for sliding into a slot 98
14 within the dispenser fan 95. Fan 95 may also be used
15 for cooling. A hollowed out area 100 allows the
16 essence to be distributed by the dispenser 95 which
17 also has heating elements 101 for dispensing the
18 essence and distributing cold air throughout the area
19 of the therapeutic toy 90, such as a child's personal
20 inhaler. It will, of course, be clear that magnets
21 and other naturopathic elements at any layer within
22 the decorative object body can also be distributed.

23 Turning to Figures 24-30, a therapeutic shoe and
24 ankle band is illustrated in which acupressure points
25 of a person's foot and ankle are shown, as illustrated
26 in Figures 24 and 25, with the acupressure nodules 102
27 mounted to the base of a pad or shoe, as shown in
28 Figures 26 and 27, apply pressure to the points, as
29 illustrated in Figure 24. The nodules 102 may be
30 adjusted for height to adjust the pressure of the
31 nodules against the skin surface. Figures 22, 30 and
32 30A also show magnets 129. In addition, the pressure
33 points can be attached to an ankle band 103. The shoe
34 104 has an insert 105 in Figure 28 which has both

1 pressure points and an essence 106 holding surface on
2 the pad 105 and it may also include acupressure
3 elements, essence, magnets etc. as desired. The same
4 is incorporated into a sandal as shown in Figure 29.
5 In Figures 30 and 30A, a band 103 has magnets 129 and
6 pressure points 102 and a hot or cold element with
7 essence supporting material 113 and massager 122.

8 Turning to Figures 31-36, the therapeutic modules
9 are incorporated into a hat 106 having a brim 107 with
10 an absorbent essence holding surface 108. The essence
11 109 can be applied and positioned in front of a
12 person's face for the evaporation and dispensing of
13 the essence to a person directly over their nose, as
14 seen in Figure 36. Also available in the hat is a
15 therapeutic band 110 which may have acupressure
16 nodules 111 incorporated, along with magnets 112 and
17 an essence supporting material 113, for holding the
18 essence 109. The band can be filled with instant
19 hot/cold packets or grains and herbs heated or cooled
20 externally, or through the rays of the sun. The band
21 can be attached, as shown in Figure 36, with a VELCRO
22 114, as seen in Figure 35.

23 Turning to Figures 37-39, a handbag 115 is
24 utilized for supporting the therapeutic modules and is
25 held by a person 116 sitting in a chair 117, as seen
26 in Figure 37. The handbag can have heating and
27 cooling material 118 on one side and may have an
28 essence dispensing surface 120 on the top with an
29 essence dispenser 123. The other side can support a
30 massaging or vibrating surface 122 and can retain
31 magnets 121, acupressure modules, or massage vibrators
32 so the person holding the bag 115, as shown in Figure
33 37, can hold the bag in either direction for obtaining
34 a plurality of therapeutic treatments simultaneously

1 even while traveling. The purse ingredients are
2 contained in an insulated portion 124.

3 Turning to Figures 40-45, a therapeutic mattress
4 125 for an animal 126 is illustrated having a slot 127
5 for receiving an essence filter 128 for the essence
6 130. The mattress 125 for the animal 126 can also
7 have a heating pad 131 and a layer of different
8 granular materials 124, magnets and other therapeutic
9 devices. Figure 43 shows an individual dog wrapped
10 with the supporting cover 132. An animal ankle wrap
11 133 is illustrated in Figure 45 while a therapeutic
12 wrap 134 is illustrated in Figure 44. Figure 42 shows
13 the microwave heating of dog vest 132 or 134.

14 Referring to Figures 46-49, another embodiment is
15 illustrated in which athletic decorative bands 140 can
16 be on an athlete's 141 head while having a therapeutic
17 module 142 wrapped around the person's arm and shin
18 143. Each of the wraps, as well as the athletic
19 clothing 144, can have acupressure nodules 145
20 attached therein at specific points. They may also
21 have magnets 146 positioned within the clothing and
22 can also have a hot or cold pack 149 formed therein
23 and a hot or cold pack therapeutic cloth may have a
24 specially absorbent material 147 for receiving an
25 essence 148 near the person's head in both a top 150
26 (Figure 48A) and a jacket 151 (Figure 48). Pants 152
27 may have pressure modules 153 as well as a sprayed on
28 essence 154. The products include naturopathic jeans
29 that help relive cellulite. Heated naturopathic
30 gloves shawls and head covers. Figure 46 illustrates
31 some of the acupressure points in a person.

32 Referring to Figure 50, a corner of a room 160 is
33 illustrated having walls which may have incorporated
34 therein therapeutic devices to give off radiation,

1 such as light or sound radiations, magnetic fields and
2 the like. Furniture in the room including the carpet
3 162 having a heating element 161 therein and a sofa
4 163 as well as the lamp 164, all of which can be
5 provided with therapeutic covers which can be
6 electrically heated and can contain or have added
7 thereto naturopathic ingredients for dispensing heat
8 with aromatic vapors and built in magnets. Pillow 165
9 may also contain moisture, magnets, electromagnetic
10 fields and the like to provide a person with
11 therapeutic aromas and naturopathic treatment while
12 resting on the sofa. Figure 51 illustrates a wall
13 unit 166 which can be mounted to a wall or placed on
14 a table and includes a relaxing scenic image 167 and
15 a side mounted speaker 168 for delivering relaxing
16 sound which can also be keyed to a changing image 167
17 or a light therapy. An air fan 170 can direct air
18 through a filter 71 which may also have an aromatic
19 essence placed therein or bioelectromagnetic fields
20 for dispensing within the room. The therapeutic
21 module 166 may have an electrical cord 172 for
22 attaching to an electrical receptacle in a home.

23 Referring to Figure 52, a rolled-up pad of
24 material 175 is illustrated having a plurality of
25 tubes 176, such as the tubes 43 in Figures 15A and B
26 and a plurality of magnets 177 or other inserts
27 attached into the strips. The fabric can be made of
28 a material for receiving therapeutic essence 178
29 thereinto for generating the inhalants or to relieve
30 pain and can also be heated or cooled. The material
31 175 can be used to make clothes, furniture covers or
32 as a mat to cover a surface but can also be cut and
33 shaped and used to wrap toys, for instance, which can
34 then be held by a person. The material can be sprayed

1 with a spray 180 to provide a multi-therapeutic pad
2 which can be taken with an individual while traveling.

3 Figure 53 illustrates a table 181 having built-in
4 therapeutic dispensing devices including a speaker 182
5 for dispensing pleasing therapeutic sounds or
6 frequencies and an aromatic dispensing unit having a
7 fan 183 directing air through a filter 184 having
8 aromatic essences placed thereon for dispensing from
9 openings in the table top or from a side air dispenser
10 185. The table top 186 can have an optical image 189
11 thereon which can be a continuously changing image or
12 light designed for optical relaxation or be a source
13 of heating or cooling.

14 Figure 54A illustrates a chess board 187 having
15 chess pieces 188 which have incorporated magnets heat
16 and/or aromatic essence dispensers. Each chess piece
17 188 can have an essence supporting and dispensing
18 material 190 with an aromatic essence material added
19 thereto for dispensing while a person is playing
20 chess. Similarly as seen in Figure 54, a deck of
21 playing cards 191 can be made out of non-flammable
22 material and be warmed in a microwave prior to the
23 game and have a dispensing surface 192 added thereto
24 which can have an aromatic or other essence added
25 thereto for dispensing into the air and body while a
26 person is playing cards.

27 It should be clear at this time that a decorative
28 object can be utilized as camouflage to cover a
29 plurality of therapeutic treatment devices. The
30 present invention is not to be limited to the forms
31 shown but is to be considered illustrative rather than
32 restrictive.

CLAIMS:

I claim:

- 1 1. A therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187)
4 comprising:
5 a therapeutic device (59,61,55,66,69,70,74,
6 Figures 14A-14G,43,85,94,98,102,108,110,118,121,122,
7 128,145,146,149,153,161,167,170,177,183,189,192,190);
8 therapeutic device camouflage concealing said
9 therapeutic device while said therapeutic device is
10 located adjacent an individual receiving therapy from
11 said therapeutic device whereby a person can receive
12 therapy in the presence of other individuals without
13 drawing attention to the therapeutic action taking
14 place.
- 1 2. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 1 including a plurality of therapeutic devices (59,61,
5 55,61,69,70,74, Figures 14A-14G,43,85,94,98,102,108,
6 110,118,121,122,128,145,146,149,153,161,167,170,177,
7 183,189,192,190) .
- 1 3. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 2 in which said plurality of therapeutic devices
5 includes a vaporizer (70,74A,Figure 14F,85,96,
6 108,120,128,147,161,183,188) for producing a
7 therapeutic vapor adjacent a person.

1 4. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 2 in which said plurality of therapeutic devices
5 includes a massage unit (94,129,Figure 14D,122) for
6 producing a massaging vibration adjacent a person.

1 5. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 2 in which said plurality of therapeutic devices
5 includes heating means (Figures 14A and 14C, 43,
6 Figure 19,87, Figure 42,131) including heat storing
7 material (Figure 14A).

1 6. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 2 in which said plurality of therapeutic devices
5 includes heating means of loose granular material
6 which also forms a vaporizer when a vaporizing liquid
7 is applied to the heated loose granular material.

1 7. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 2 in which said camouflage is shaped like a soft
5 sculpture animal figure (50,67,40,80,90) shaped to be
6 attached to a person.

1 8. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 1 in which said therapeutic device includes pressure
5 points (69,59,102,145) placed camouflaged in clothing
6 and positioned to apply pressure to predetermined
7 points of a body.

1 9. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 1 in which said therapeutic device includes means for
5 generating a bioelectromagnetic field for applying to
6 a person's body.

1 10. The therapeutic apparatus (50,62,67,70,71,
2 75,78,79,40,44,45,46,80,90,103,104,106,115,125,132,
3 134,140,144,151,152,162,166,175,181,191,187) of claim
4 1 in which said therapeutic device includes frequency
5 generating means for generating a predetermined
6 frequency adjacent the body.

1 11. A decorative therapeutic apparatus
2 (50,67,40,80,90) comprising:
3 a decorative object shaped to be positioned
4 adjacent to a person;
5 therapeutic means (59,61,55,66,69,70,74, Figures
6 14A-14G,43,85,94,98,102,108,110,118,121,122,
7 128,145,146,149,153,161,170,177,183,192,190) attached
8 to said decorative object adjacent a person wearing
9 said decorative object, said therapeutic means being
10 camouflaged by said decorative object whereby
11 camouflaged therapeutic means can provide a
12 therapeutic action to a person wearing said decorative
13 object.

1 12. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 11 in which said therapeutic
3 means includes a plurality of therapeutic devices
4 (59,61,55,61,69,70,74, Figures 14A-14G,43,85,94,
5 98,102,108,110,118,121,122,128,145,146,149,153,
6 161,170,177,183,192,190).

1 13. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes a vaporizer (70,74,Figure 14F,85,96)
4 for producing a therapeutic vapor adjacent a person.

1 14. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes a massage unit (94, Figure 14D) for
4 producing a vibration adjacent a person.

1 15. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes heating means (Figures 14A and
4 14C,43,Figure 19,87,Figure 42,131) is loose granular
5 material.

1 16. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 15 in which said loose
3 granular material includes flax seeds.

1 17. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes heating means of loose granular
4 material which also form the vaporizer (Figure 9)
5 when a vaporizing liquid is applied to the heated
6 loose granular material.

1 18. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes a vaporizer having a heating element
4 and a fan for blowing heated vaporizing liquid out of
5 said decorative object.

1 19. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said decorative
3 object is shaped like a soft sculpture animal figure
4 (50) shaped to be attached to a person.

1 20. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes permanent magnets (61) mounted in said
4 decorative object adjacent a person's body wearing
5 said decorative object.

1 21. The decorative therapeutic apparatus
2 (50,67,40,80,90) of claim 12 in which said therapeutic
3 means includes pressure points (59) placed in said
4 decorative object and positioned to apply pressure to
5 predetermined points of a person's body.

1 22. A therapeutic clothing apparatus
2 (44,45,46,104,106,115,132,134,144,152,151,150,140)
3 comprising:
4 a clothing item (44,45,46,104,106,115,132,
5 134,144,152,151,150,140) for wearing by an individual;
6 a plurality of acupressure nodules, each located
7 adjacent a selected known acupuncture point of an
8 individual wearing said clothing item to apply
9 pressure to a plurality of acupressure points of an
10 individual wearing said clothing item.

1 23. The therapeutic clothing apparatus
2 (44,45,46,104,106,115,132,134,144,152,151,150,140) of
3 claim 22 including a plurality of magnets
4 (61,49,146,121) located in said clothing item.

1 24. The therapeutic clothing apparatus
2 (44,45,46,104,106,115,132,134,144,152,151,150,140) of
3 claim 23 in which said clothing item is a shoe (104)
4 having a plurality of acupressure nodules (102)
5 positioned on the shoe insole.

1 25. A therapeutic clothing apparatus (106,
2 115,151) comprising:

3 a clothing item (44,45,46,104,106,115,132,
4 134,144,152,151,150,140) for wearing by an individual;
5 a camouflaged vaporizer attached to said clothing
6 item positioned to direct a vapor adjacent an
7 individual whereby an individual is exposed to a vapor
8 while wearing said clothing item.

1 26. The therapeutic clothing apparatus
2 (106,115,151) of claim 25 in which said clothing item
3 is a hat having a brim having a passive vaporizer made
4 of an vaporizing liquid support material formed in
5 said brim to hold a vaporizing liquid for vaporizing
6 adjacent a person's face and nose.

1 27. A therapeutic purse (115) comprising:
2 a ladies purse having a plurality of therapeutic
3 devices (118,121,122) therein, said plurality of
4 therapeutic devices including an electric massager
5 (122) positioned for massaging an area of an
6 individual's body when held thereagainst.

1 28. The therapeutic purse (115) in accordance
2 with claim 27 in which said plurality of therapeutic
3 devices includes a heating pad (118) positioned for
4 heating an area of an individual's body when held
5 thereagainst.

1 29. The therapeutic purse (115) in accordance
2 with claim 28 in which said plurality of therapeutic
3 devices includes a vaporizer (120) for vaporizing a
4 liquid adjacent said purse when activated.

1 30. A therapeutic piece of furniture
2 (71,162,163,164,166,181,187) comprising:
3 a piece of furniture (71,162,163,164,166,
4 181,187);
5 therapeutic means attached to said piece of
6 furniture and being visually camouflaged from view
7 whereby a therapeutic can provide therapeutic action
8 on persons adjacent the furniture.

1 31. The therapeutic piece of furniture
2 (71,162,163,164,166,181,187) in accordance with claim
3 30 in which said therapeutic means includes a
4 plurality of therapeutic devices.

1 32. The therapeutic piece of furniture
2 (71,162,163,164,166,181,187) in accordance with claim
3 31 in which said therapeutic means includes a
4 vaporizer (183,190,170,161) for producing a
5 therapeutic vapor adjacent said furniture.

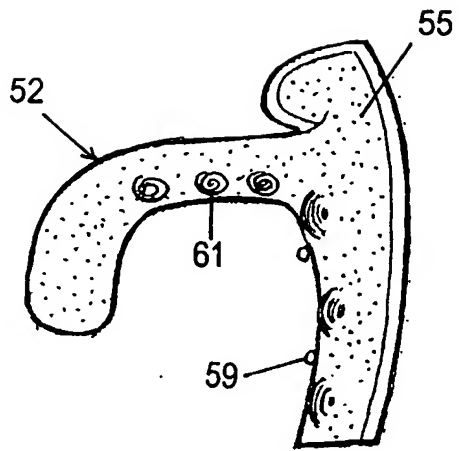


FIG. 1

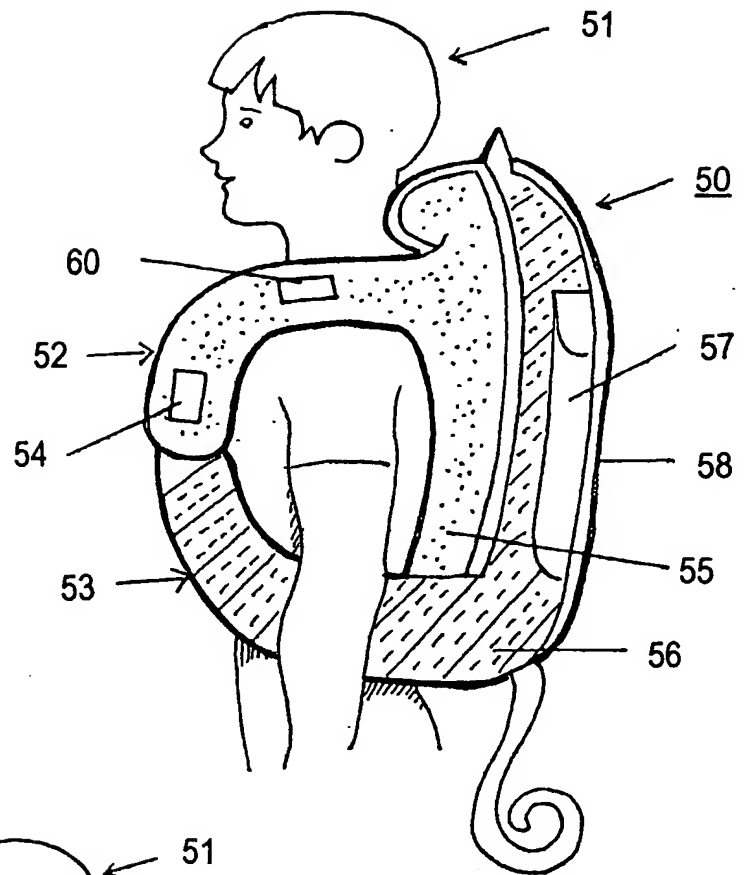


FIG. 2

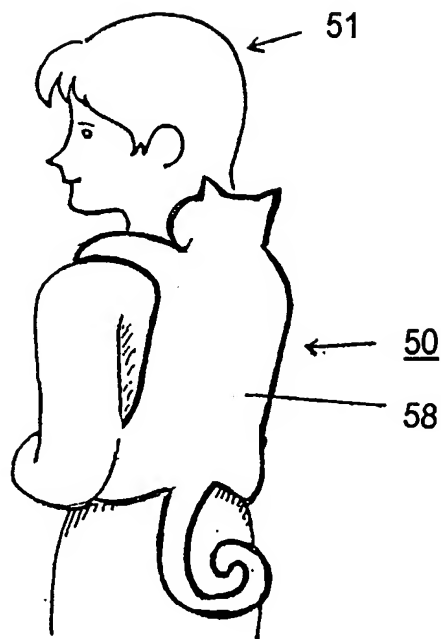


FIG. 3

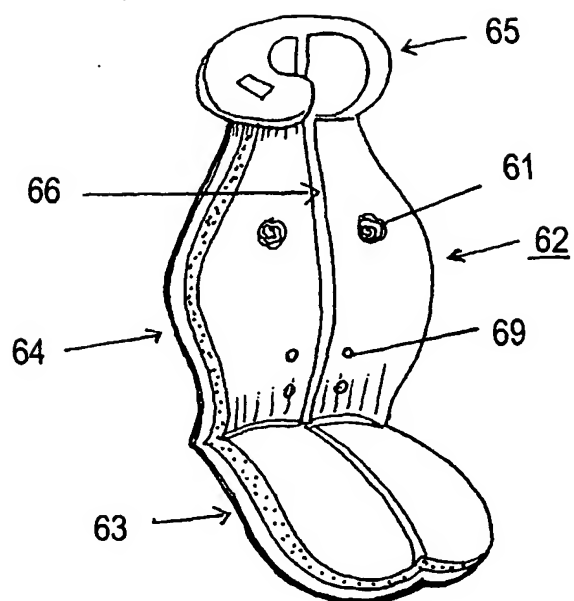


FIG. 4

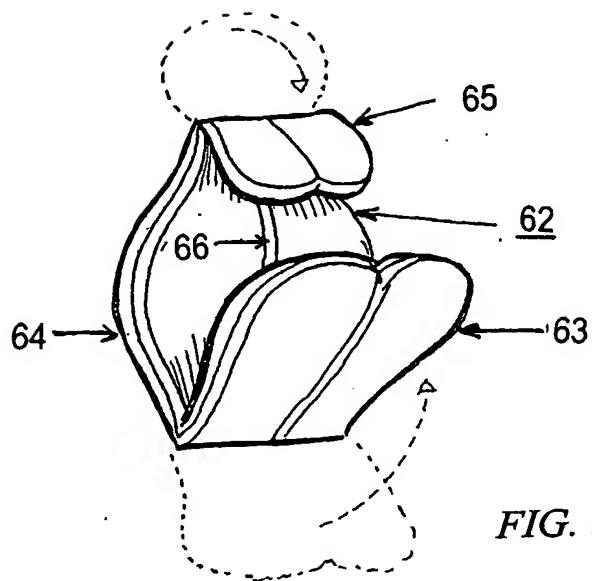


FIG. 5A

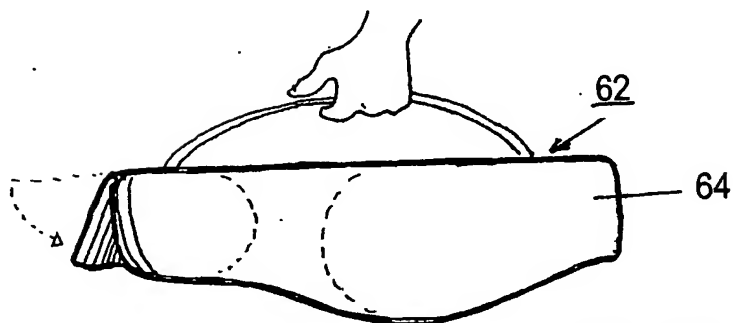


FIG. 5B



FIG. 6

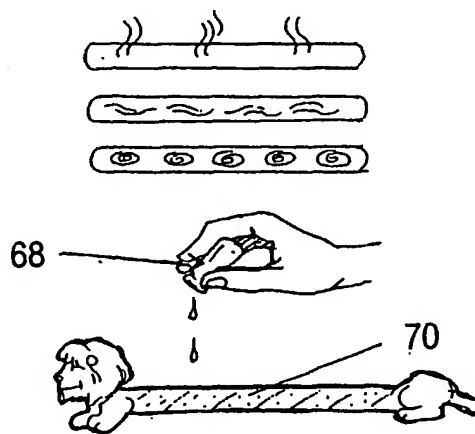


FIG. 7

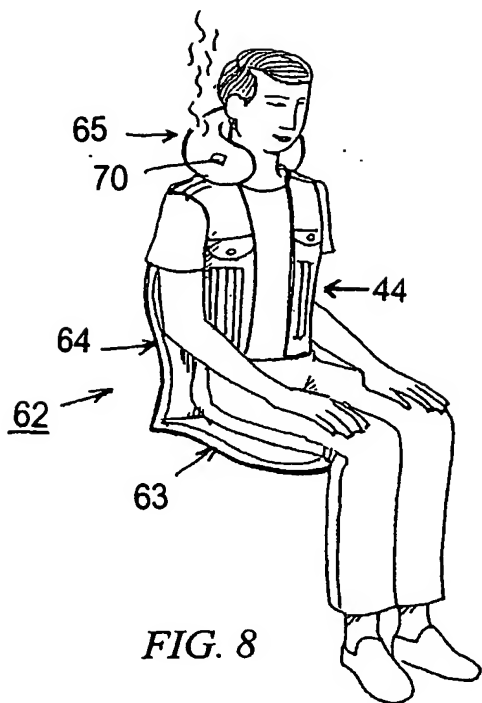


FIG. 8

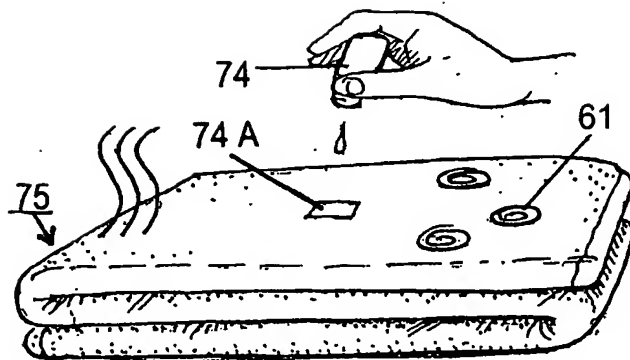


FIG. 9

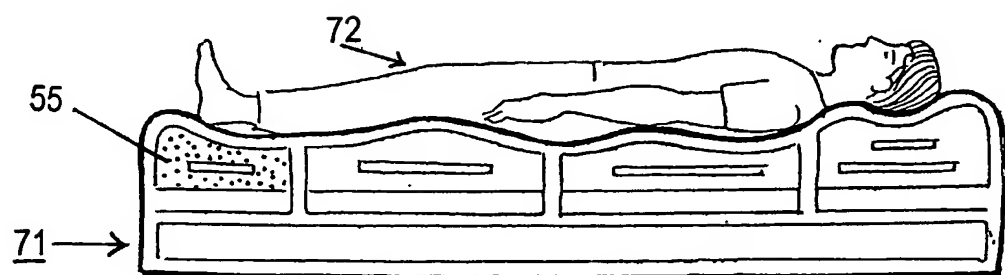


FIG. 10

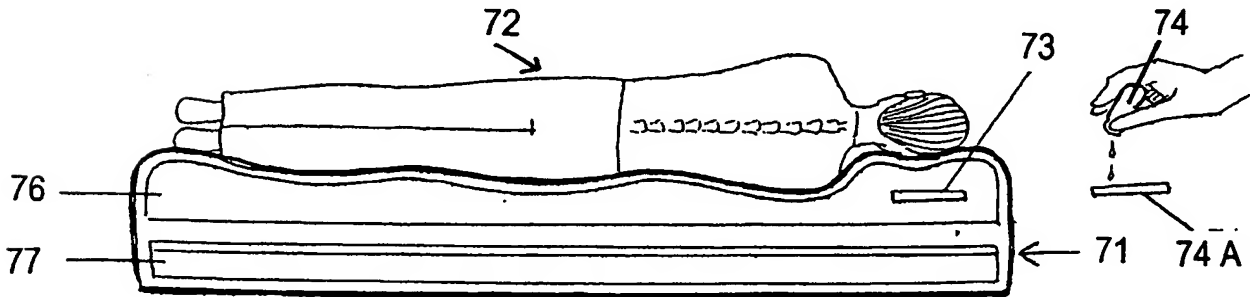


FIG. 11

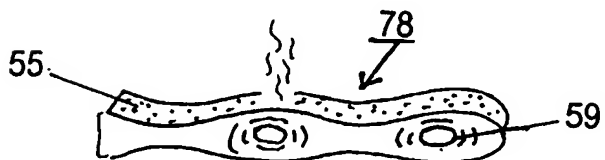


FIG. 12A

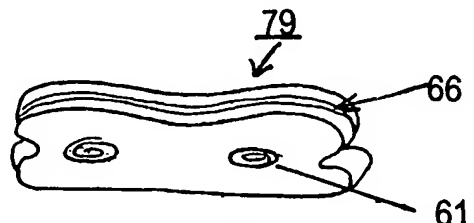


FIG. 12B

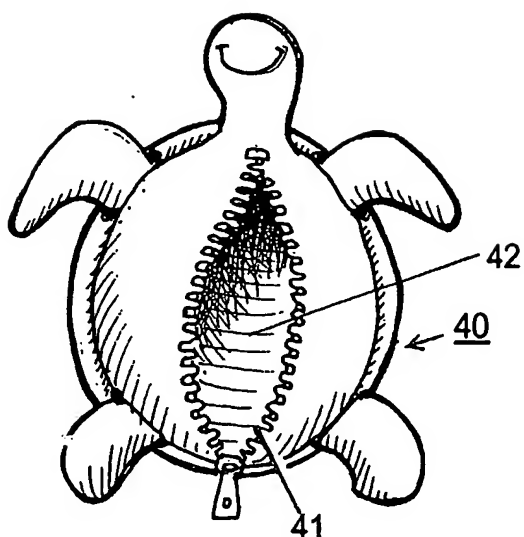


FIG. 13A

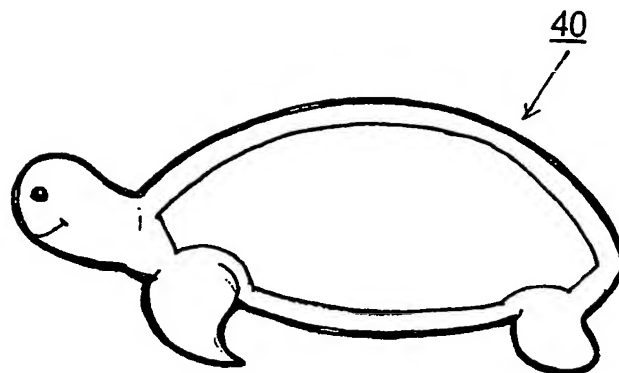


FIG. 13B

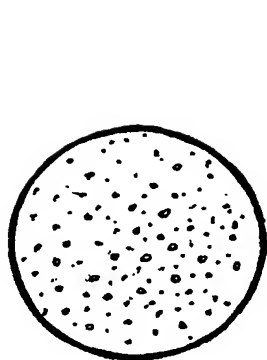


FIG. 14A

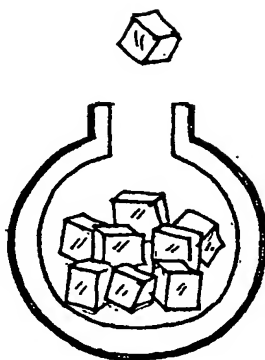


FIG. 14B

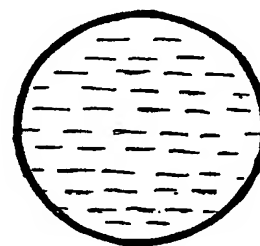


FIG. 14C



FIG. 14D

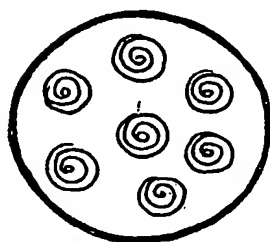


FIG. 14E

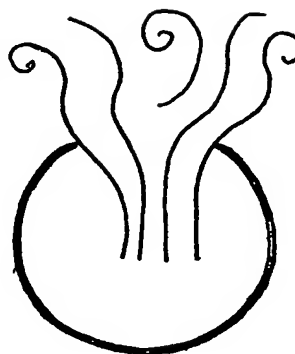


FIG. 14F

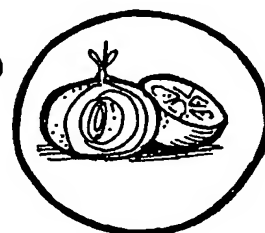


FIG. 14G



FIG. 15A

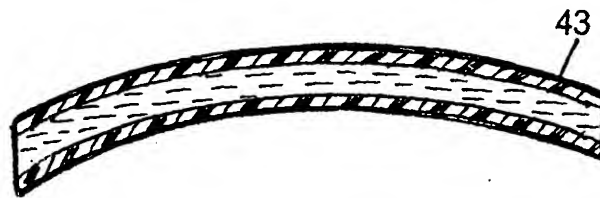


FIG. 15B

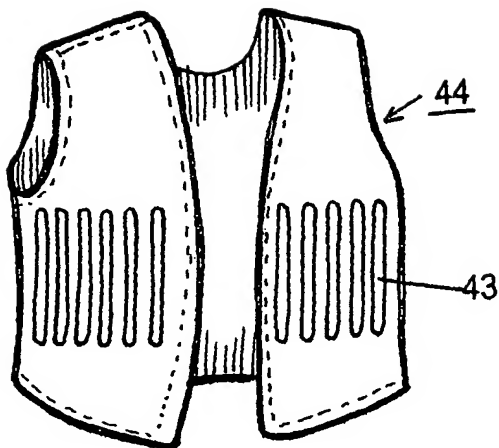


FIG. 16A

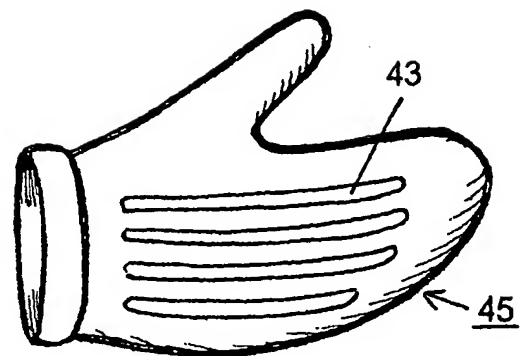


FIG. 16B

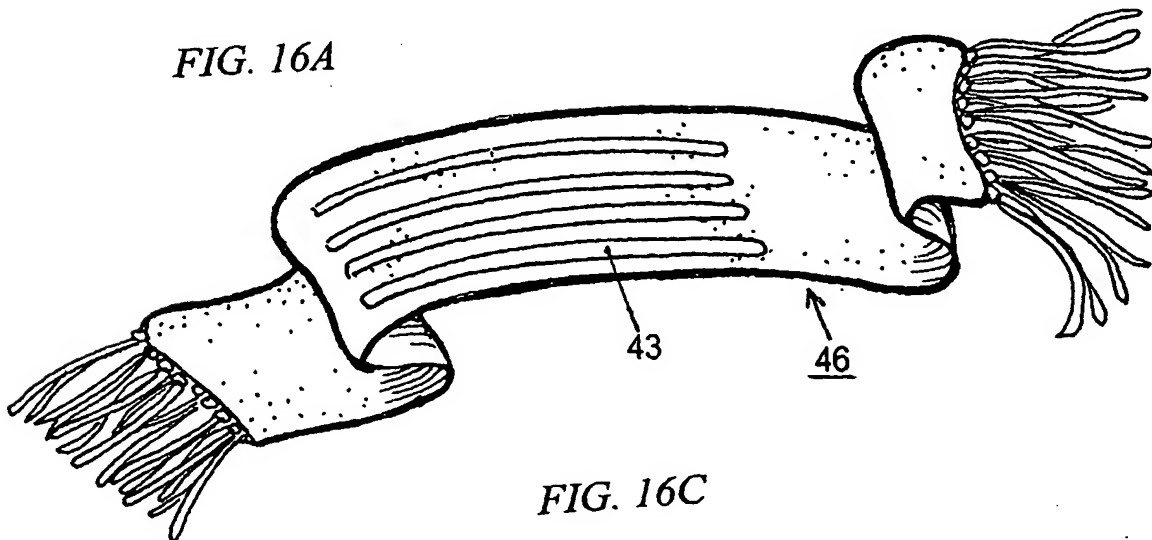


FIG. 16C

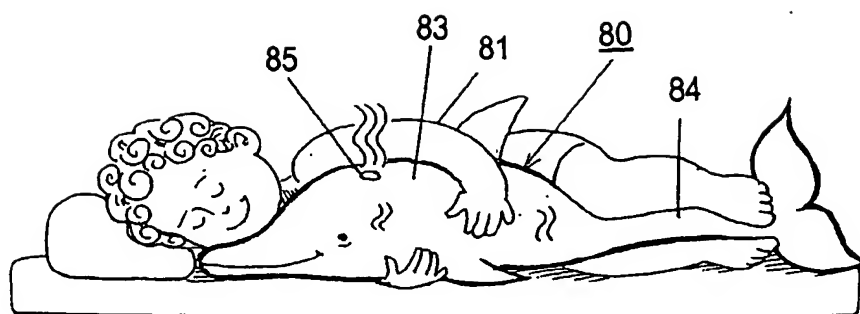


FIG. 17

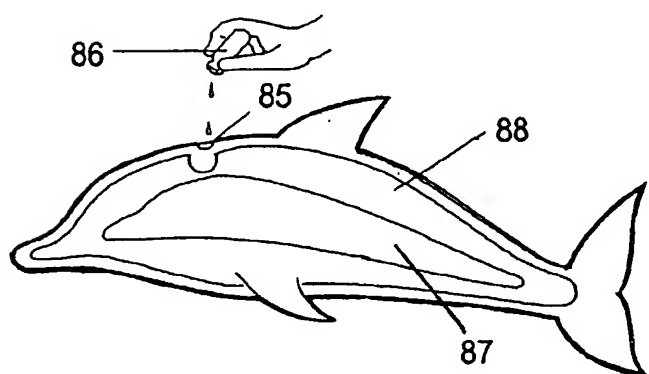


FIG. 18

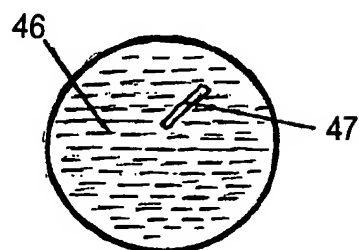


FIG. 19

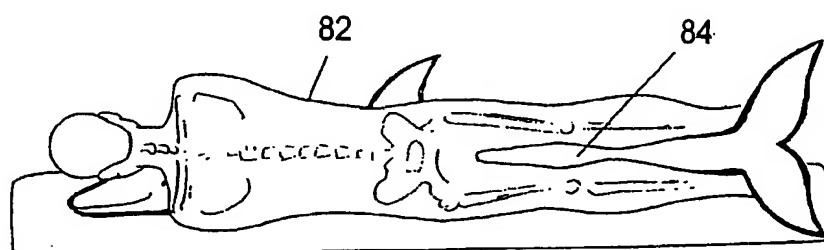


FIG. 20

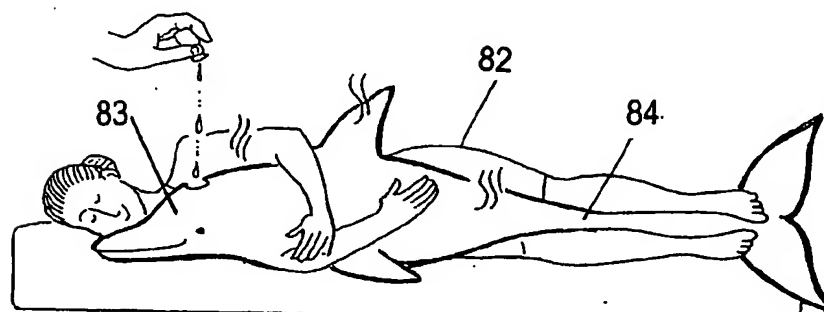


FIG. 21

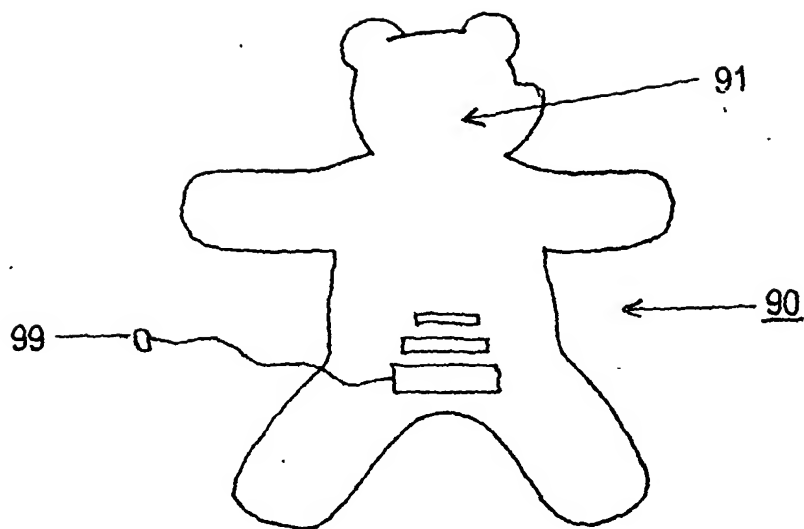


FIG. 22

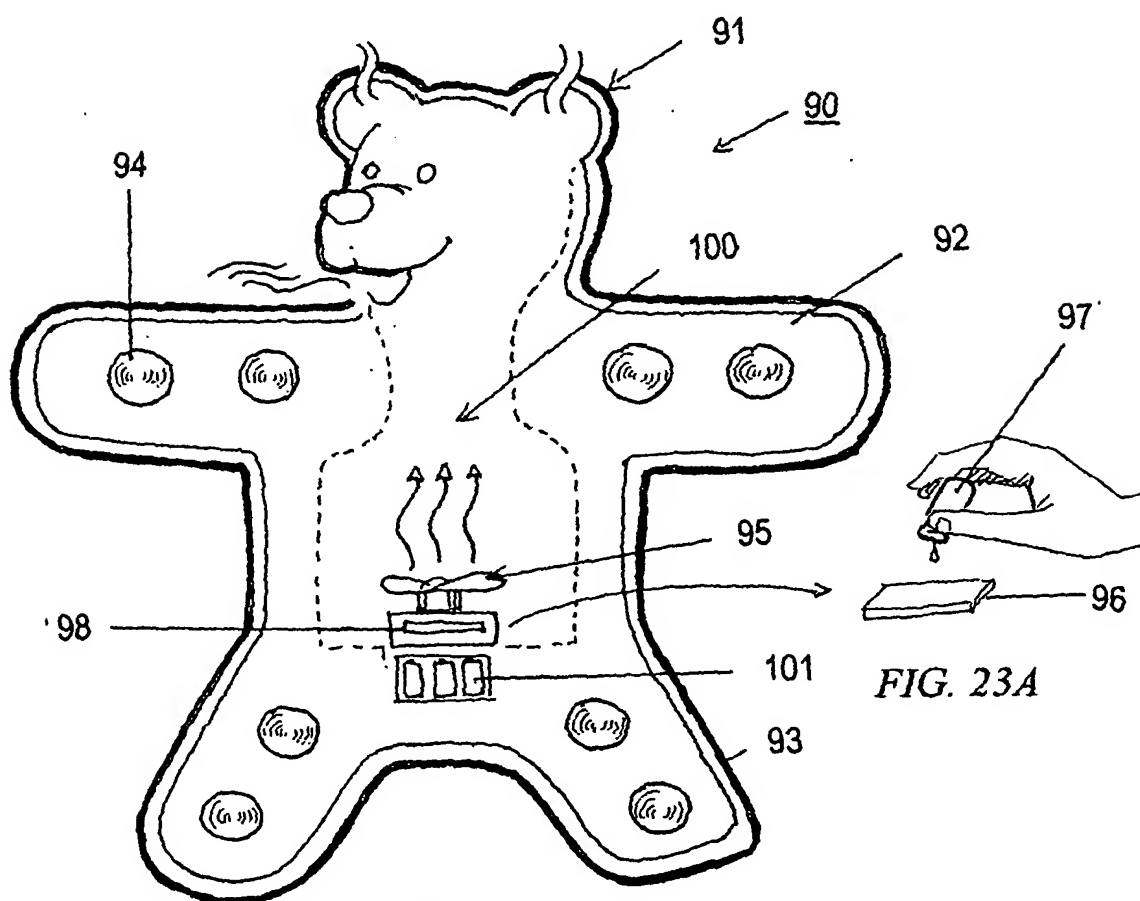


FIG. 23

FIG. 23A

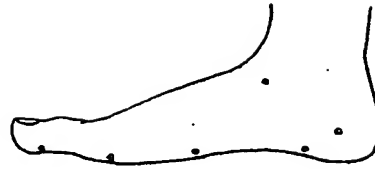


FIG. 24

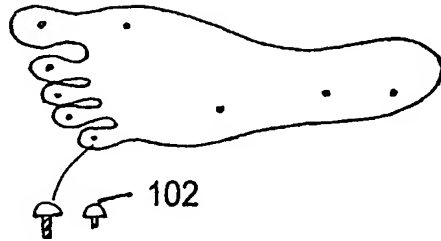


FIG. 25

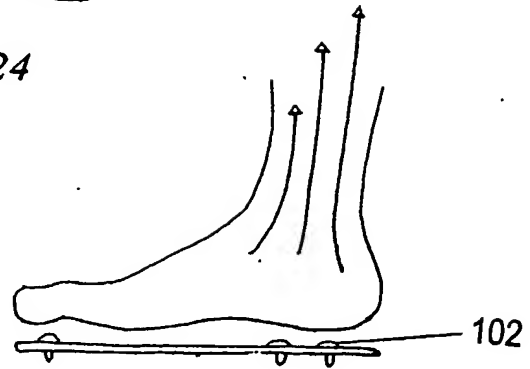


FIG. 26

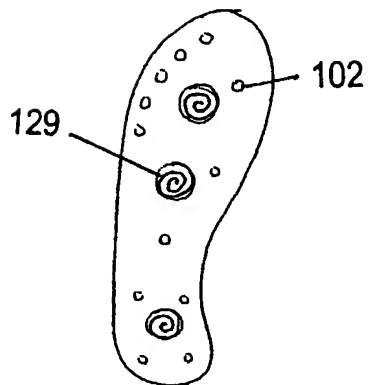


FIG. 27

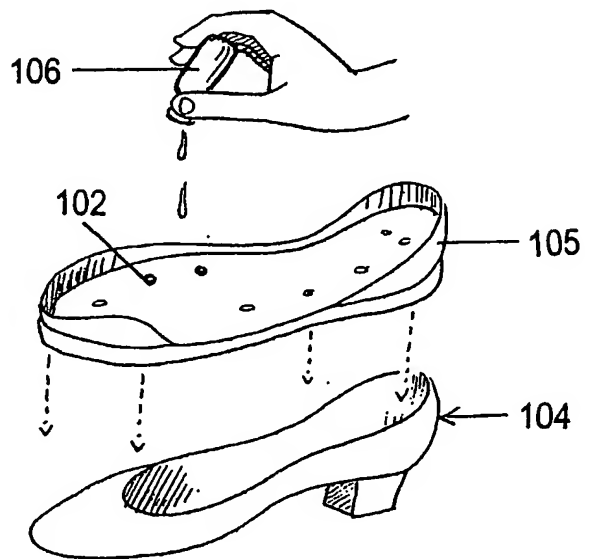


FIG. 28

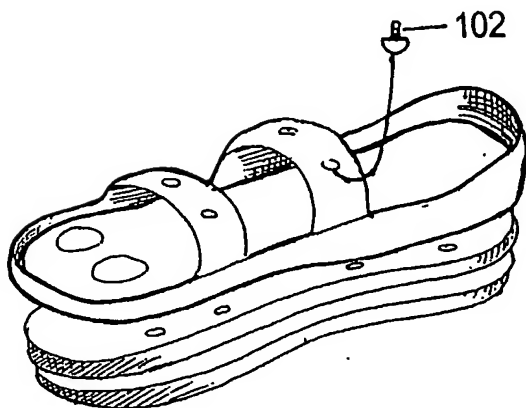


FIG. 29

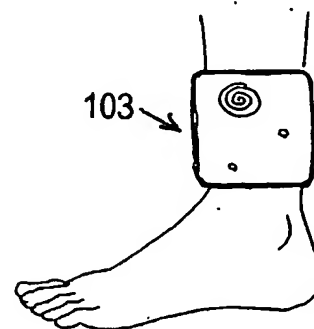


FIG. 30

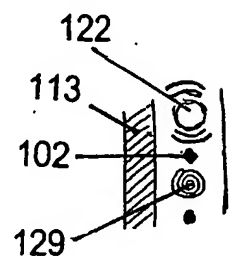


FIG. 30A

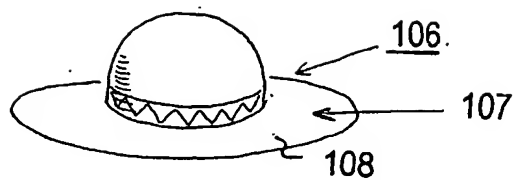
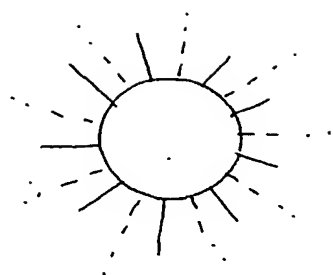


FIG. 31

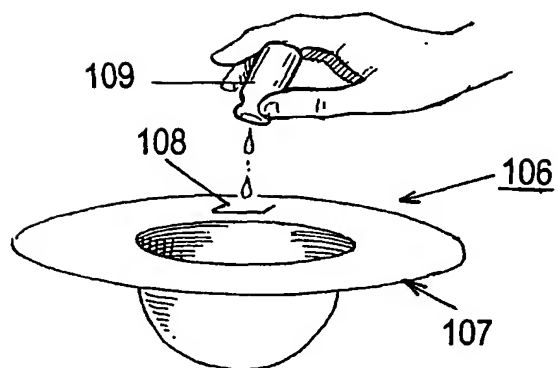


FIG. 32

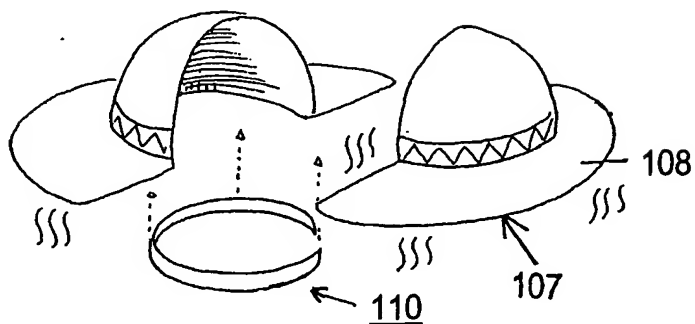


FIG. 33

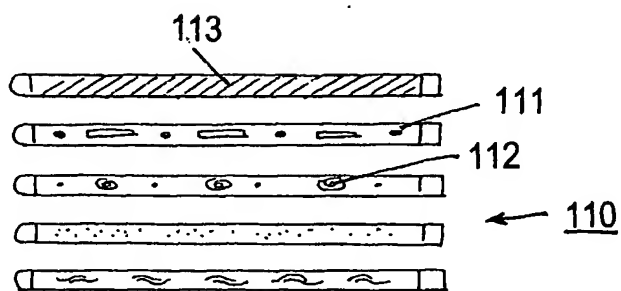


FIG. 34

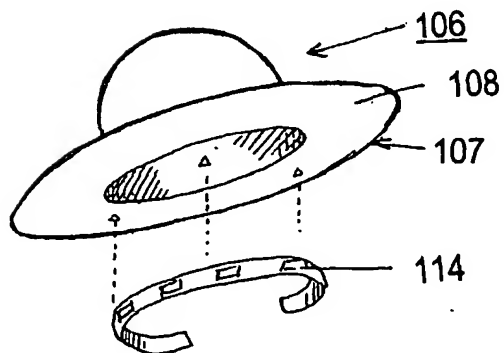


FIG. 35

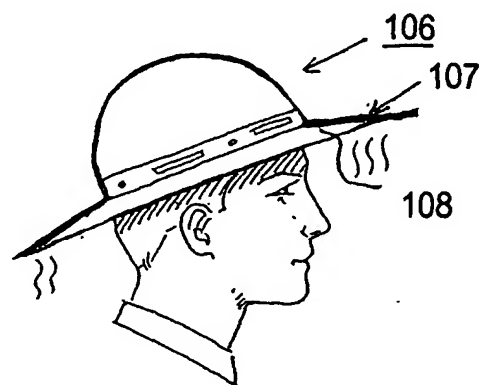


FIG. 36

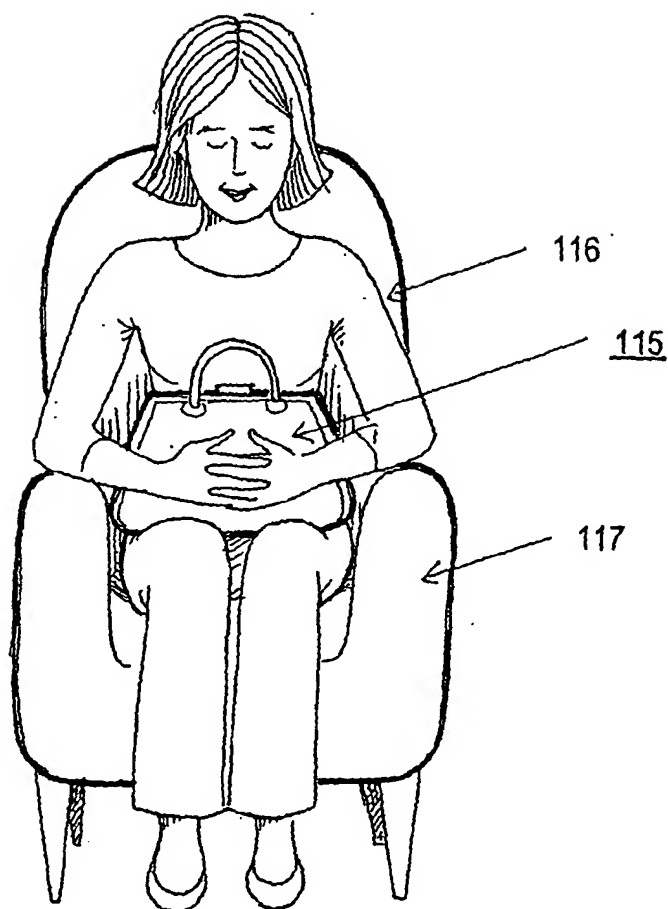


FIG. 37

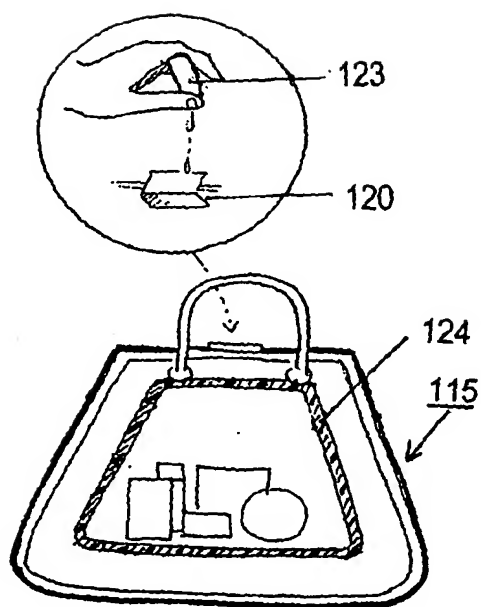


FIG. 38

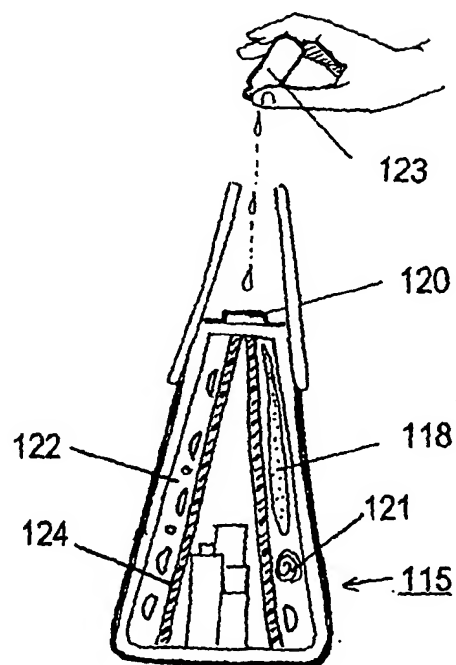


FIG. 39

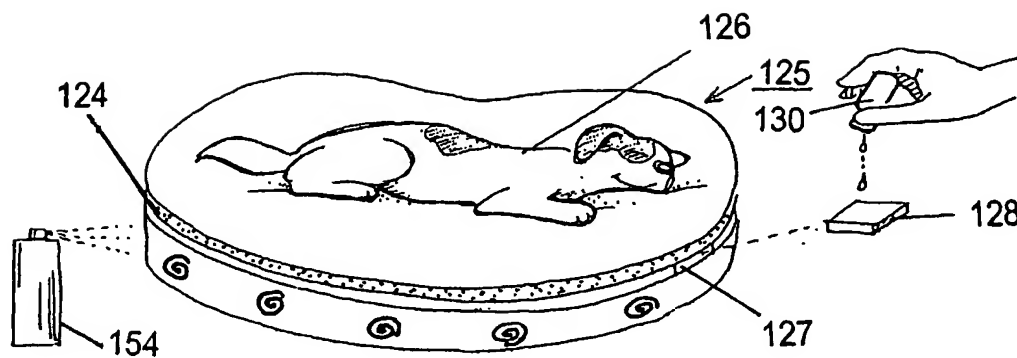


FIG. 40

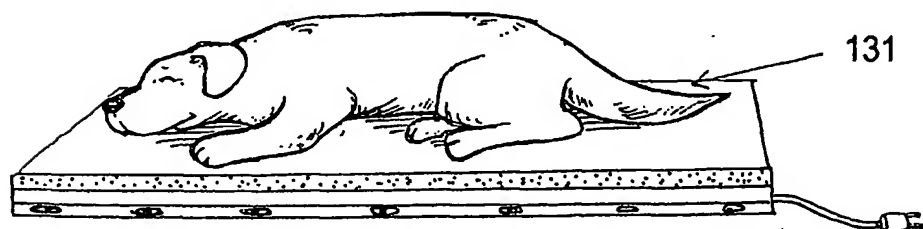


FIG. 41

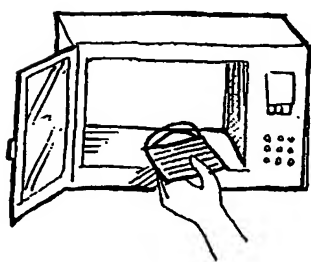


FIG. 42

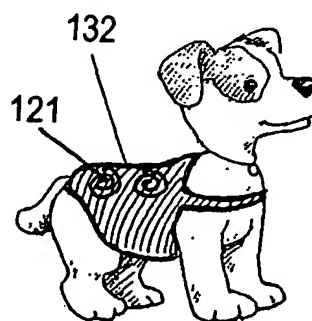


FIG. 43

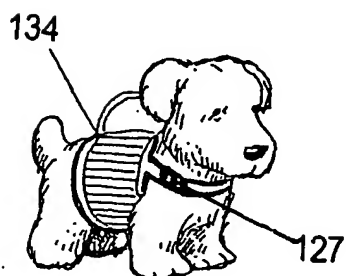


FIG. 44

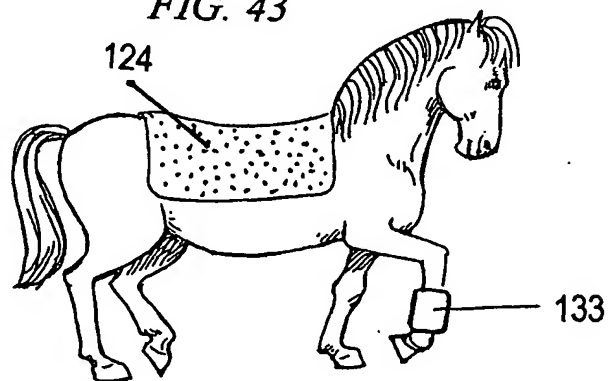


FIG. 45

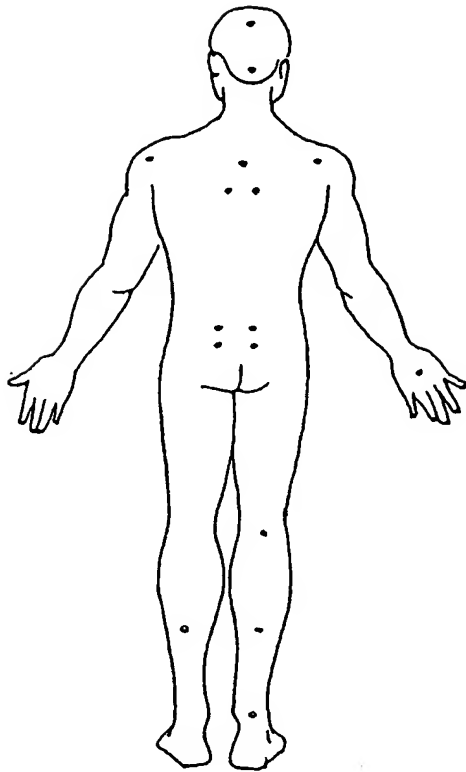


FIG. 46

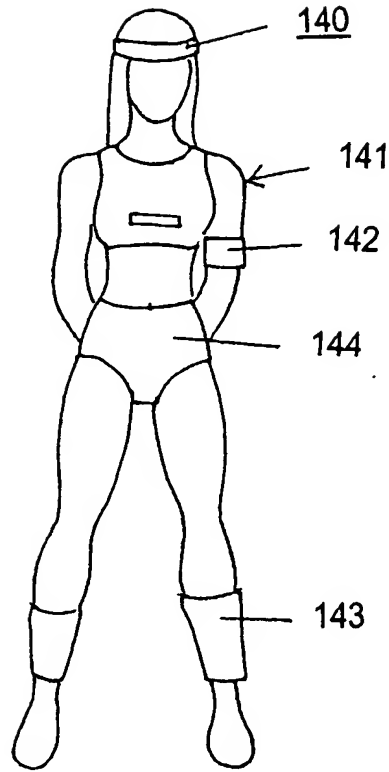


FIG. 47

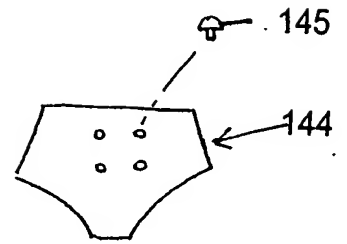


FIG. 47A

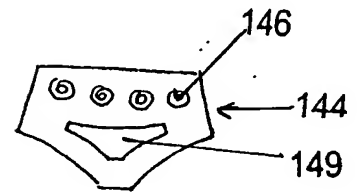


FIG. 47B

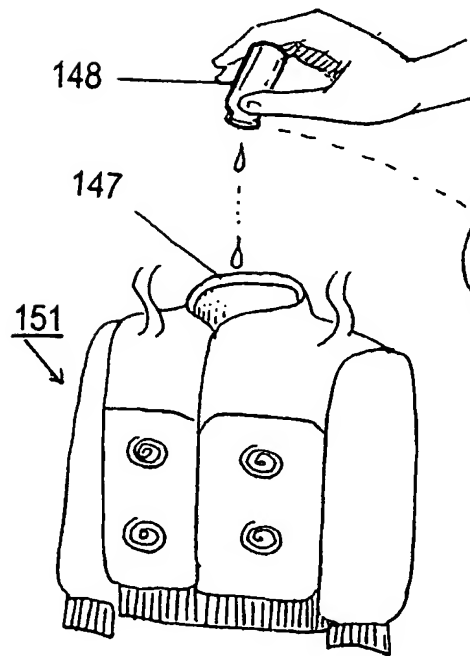


FIG. 48

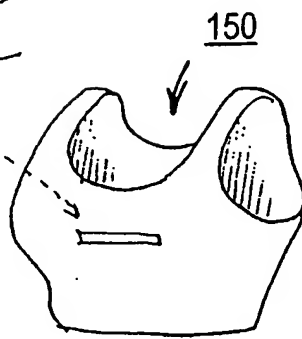


FIG. 48A

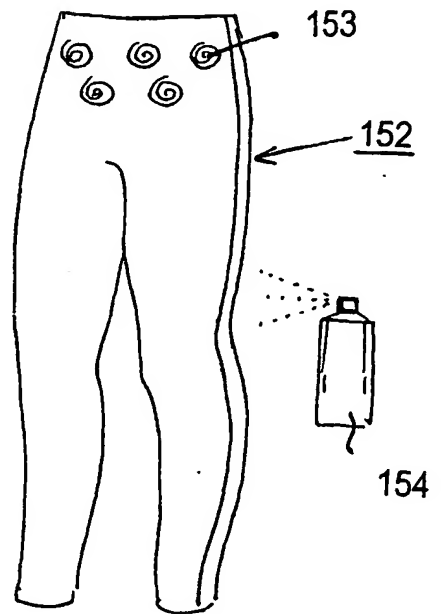


FIG. 49

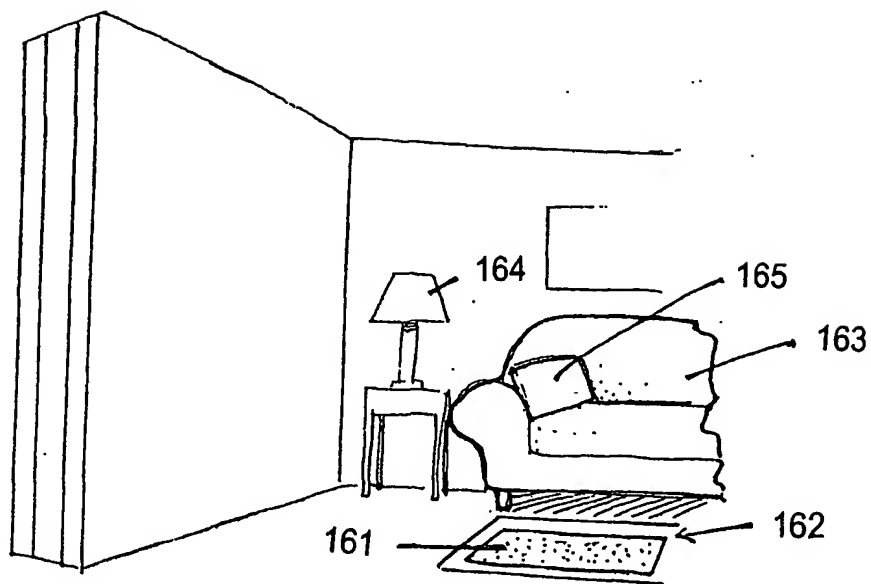


FIG. 50

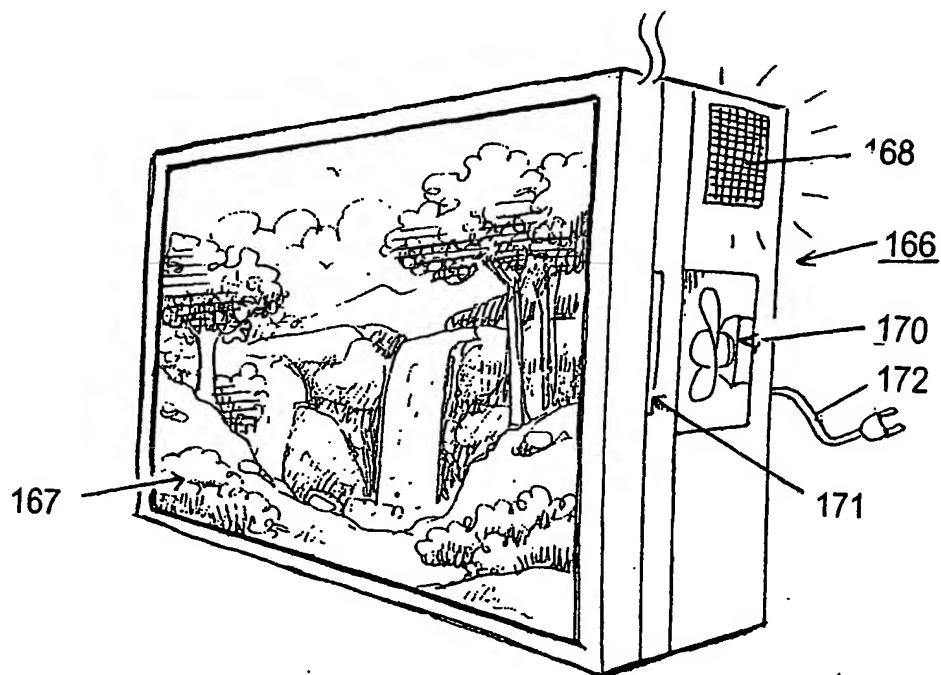


FIG. 51

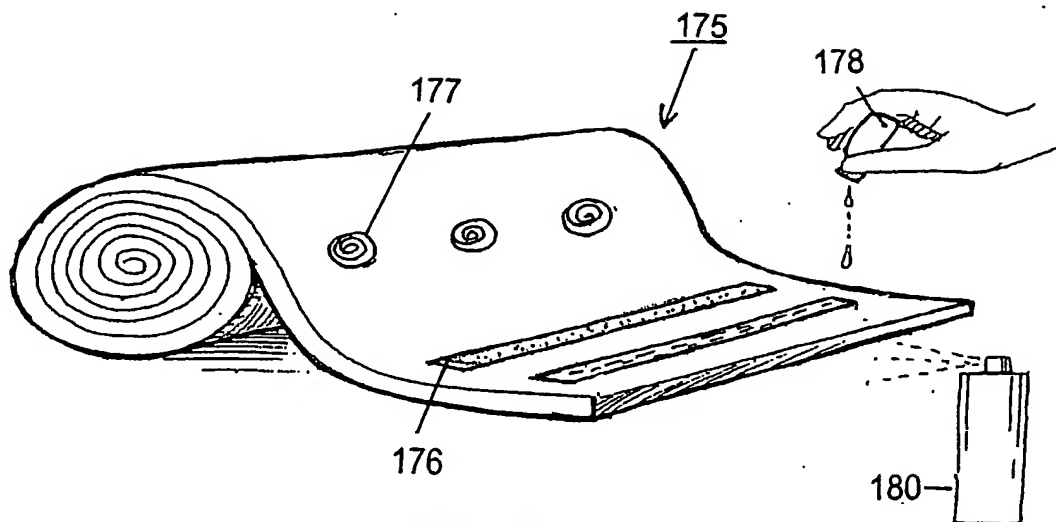


FIG. 52

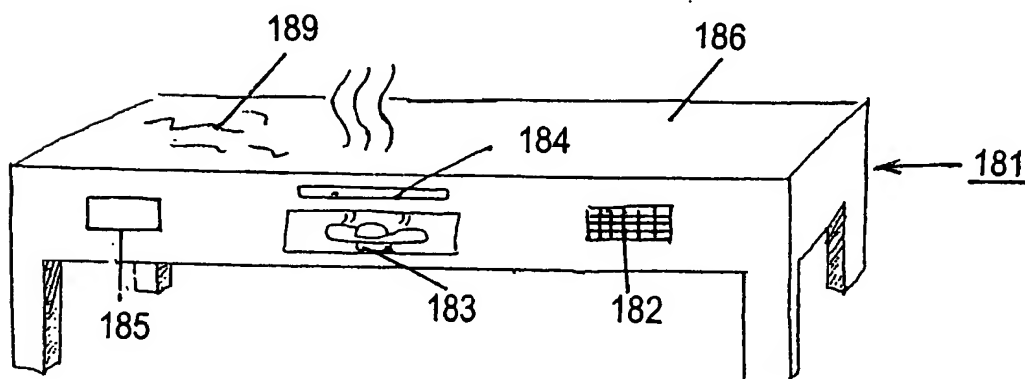


FIG. 53

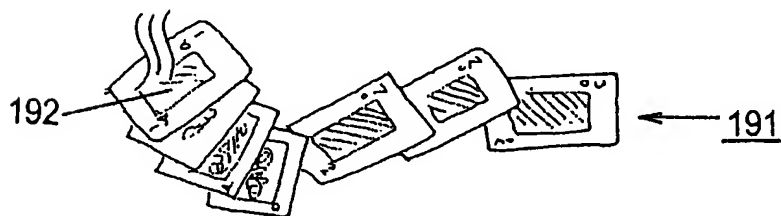


FIG. 54

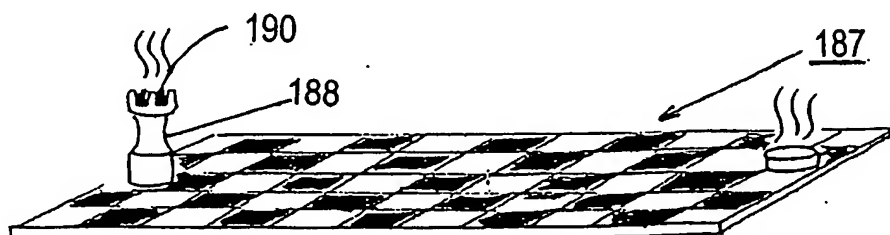


FIG. 54A

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H05B 1/00, 11/00, 3/00, 3/54

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(74) Agent: **HOBBY, William, M., III**; 157 E. New England
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CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL,
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European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI,
SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

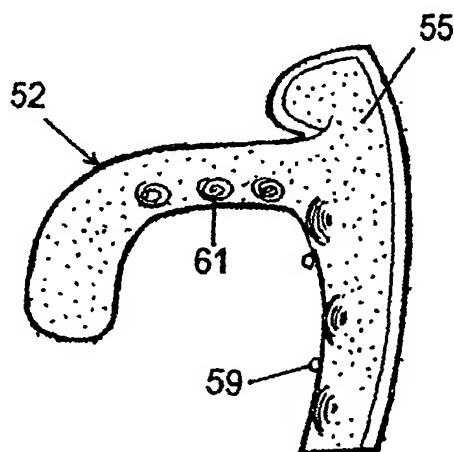
Published:

— with international search report

(88) Date of publication of the international search report:
16 October 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: THERAPEUTIC DECORATIVE OBJECT



(57) Abstract: A therapeutic apparatus (50) includes one or more therapeutic devices (59,61) such as a vaporizer, a massage unit, heating or cooling units, which are camouflaged in a decorative object or in a clothing item or in a utilitarian object, such as piece of furniture, all of which are worn or located adjacent a person who can obtain the therapeutic benefits from the items. A decorative object (50) can be shaped to be worn by a person and have a therapeutic device camouflaged therein so that the therapeutic object acts on the individual while the decorative object is being worn. The same applies to clothing and apparel including a ladies purse, furniture such as tables or beds, having camouflaged therapeutic devices therein, such as an electric massager or vaporizer or a heating pack which can be held against a person without drawing attention to the person receiving the therapy.



WO 03/061545 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/01535

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61L 9/03, 9/04; A61M 16/00; A61H 1/00, 1/02, 5/00, 19/00, 33/06; H05B 1/00, 11/00; 3/00, 3/54
US CL : 601/15, 22, 27, 46, 49, 56, 78, 79, 89; 128/200.24, 204.13; 239/34, 36, 53, 56; 219/211, 212, 217, 9

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : Please See Continuation Sheet

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,979,502 A (HUNT) 25 DECEMBER 1990, COLUMN 2, LINES 19-53.	1, 2, 11, 12, 14
Y		5, 7, 8, 15, 16, 19, 21
X	US 5,235,967 A (ARBISI ET AL) 17 AUGUST 1993, COLUMN 3, LINES 24-41.	1, 2, 4, 9, 10, 11, 12, 14
X	US 5,395,047 A (PENDERGRASS, JR) 07 MARCH 1995, COLUMN 8, LINES 10-35.	1, 3, 11, 13, 25, 26, 30, 31, 32
X	US 5,233,768 A (HUMPHREYS) 10 AUGUST 1993, COLUMN 3, LINES 15-38.	11, 12, 20, 22, 23, 24
X	US 6,329,644 B1 (HYATT) 11 DECEMBER 2001, COLUMN 2, LINES 53-62.	27, 28, 30, 31
Y		5, 15, 16
Y	US 5,591,221 A (OWENS) 07 JANUARY 1997, COLUMN 5, LINE 53 TO COLUMN 6, LINE 25.	7, 19
Y	US 4,936,294 A (CHU) 26 JUNE 1990, COLUMN 1, LINE 67 TO COLUMN 3, LINE 12.	8, 21



Further documents are listed in the continuation of Box C.



See patent family annex.

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 5,445,349 A (HART) 29 AUGUST 1995, COLUMN 6, LINE 59 TO COLUMN 7, LINE 25.	1, 2, 3, 5, 6, 11, 12, 13, 15, 16, 17

INTERNATIONAL SEARCH REPORT

PCT/US03/01535

Continuation of B. FIELDS SEARCHED Item 1:

601/15, 22, 27, 46, 49, 56, 78, 79, 89; 128/200.24, 204.13; 239/34, 36, 53, 56; 219/211, 212, 217, 218, 528, 529; 392/386, 390, 394, 395